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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/707,238	11/30/2003	James Gregory Stanley	5701-02263	1237
26659	7590	12/14/2004	EXAMINER	
DINNIN & DUNN, P.C. 2701 CAMBRIDGE COURT, STE. 500 AUBURN HILLS, MI 48326			NGUYEN, VINCENT Q	
			ART UNIT	PAPER NUMBER
			2858	
DATE MAILED: 12/14/2004				

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b> 10/707,238	<b>Applicant(s)</b> STANLEY ET AL.	
	<b>Examiner</b> Vincent Q Nguyen	<b>Art Unit</b> 2858	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-19 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-19 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |  |
|--|--|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. ____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)            |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date <u>5/28/2004</u> . | 6) <input type="checkbox"/> Other: ____  |

## **DETAILED ACTION**

### ***Information Disclosure Statement***

1. On the IDS filed 5/28/2004, please submit the documents listed under "Other Prior Art" on page 1 of 15 and page 2 of 15 (Applicant's pages 5-6) for them to be considered.

### ***Specification***

2. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

3. The abstract of the disclosure is objected to because it contains legal phraseology "comprises" (e.g. lines 11 and 13). Correction is required. See MPEP § 608.01(b).

***Claim Rejections - 35 USC § 102***

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claims 1-19 are rejected under 35 U.S.C. 102(b) as being anticipated by Howing (5,525,843).

Regarding claims 1, 13, Howing discloses a method of sensing occupant and occupant sensor in a seat comprising the steps of (figure 4) placing a first electrode (15) between heating element (14) and a seating region (The space between the backrest and the seat) of the seat; placing a second electrode (14) between said heating element (14) (Element 14 is also electrode; See column 3, line 29) and the first electrode (15); providing for operatively coupling a first signal (20) to said first electrode (14); and providing for operatively coupling a second signal (20, 46) to said second electrode (15), wherein said first signal is an oscillating signal, and said second signal is substantially equal to said first signal (The first and second electrode receive signals from same source 20, it is substantially equal).

Regarding claim 7, Howing discloses a method of sensing occupant in a seat comprising the steps of (figure 4) placing a first electrode (15) between heating element (14) and a seating region (The space between the backrest and the seat) of the seat; placing a second electrode (14) between said heating element (14) (Element 14 is also electrode; See column 3, line 29) and the first electrode (15); providing for operatively

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coupling a first signal (20) to said first electrode (14); and providing for operatively coupling a second signal (20, 46) to said second electrode (15), wherein said first signal is an oscillating signal, and said second signal is substantially equal to said first signal (The first and second electrode receive signals from same source 20, it is substantially equal); sensing a response to said first signal (column 4, lines 32-53).

Regarding claims 2, 8, 14, Howing discloses the step of placing an electrode (12) proximate to a side of said heating element (14) away from the seating region of said seat; and providing for operatively coupling said second signal to said electrode (12) (The second signal is electric field or capacitively coupled to the electrode 12).

Regarding claims 3, 9, 15, Howing discloses said second electrode (14) comprises a sheath at least partially around at least a portion of said heating element (14) (Column 5, lines 10-15) (In fact, the limitations recited in the claim is true not only for the prior art of Howing but also true for every prior art of occupant sensing because if the heating element is not around by a sheath, the chair will be burned).

Regarding claims 4, 5, 10, 11, Howing discloses said first signal comprises AC coupling (Signal generated by the oscillating 20 is AC signal and is coupling to electrodes, it is AC coupling).

Regarding claim 6, Howing discloses the step of providing for sensing the occupant from a response to said first signal (Column 4, lines 50-53).

Regarding claims 12, 18, 19, Howing discloses the step of controlling the actuation (22, 40) of a safety restraint system responsive to said response to said first signal (Column 4, lines 32-59).

Regarding claim 16, Howing discloses at least one first capacitor (16) by which said first signal is operatively coupled.

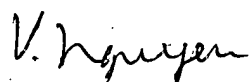
Regarding claim 17, Howing discloses at least one second capacitor (Formed by electrode 14 and 12) by which said second signal is operatively coupled (The second signal is electric field or capacitively coupled to the electrode 12).

***Contact Information***

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vincent Q Nguyen whose telephone number is (571) 272-2234. The examiner can normally be reached on 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, N. Le can be reached on (571) 272-2233. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



December 7, 2004

Vincent Q. Nguyen  
Primary Examiner  
Art Unit 2858